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Research Opportunities at LANSCE in Neutron Scattering: The Legacy of Louie Rosen¹

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Many are surprised to know that the Four Corners Region is a powerhouse in neutron scattering, and the future portends increased competitive advantage for those who use the Lujan Neutron Scattering Center at LANSCE. Connected to the world's first—and until 2010 the world's only—megawatt proton accelerator, the Lujan Center has one of the highest intensity neutron pulses in the world. Its suite of 14 instruments offers 11 materials research stations and 3 stations for nuclear physics. Importantly, the Enhanced Lujan Program scheduled for 2010-2014 will see a doubling in science capacity and quality as new instrument concepts are realized. The general user community is encouraged to become involved with instrument concept development. This presentation is dedicated to Louie Rosen, the father of the LANSCE accelerator, who passed away in August 2009.

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